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Ecuador; 'Hospital Vozandes, Quito, Ecuador; and 'Centre for Tropical Medicine, University of Oxford, ivacional de mignene y iviculenta i nopical, Guayaquii, Ecuadot; Cando internacional y Desarrono, iviffi, Quito, Oxford, U.K.)

n clinical use. There is an urgent need to find an effective alternative. Four antivenoms with cover against the which these antivenoms were tested were Ecuadonian B. atrox, B. asper and 'B. xanthogrammus'. Brazilian antivenom proved overall to be the most effective antivenom followed by the Ecuadorian and Colombian antivenoms. The Mexican antivenom was, in most respects, completely ineffective against the venoms of Ecuadorian Bothrops species. One monospecific Brazilian L. muta antivenom (Instituto Butantan) and the Colombian polyspecific antivenom (see above) were tested against Ecuadorian L. muta venom; the former was effective whereas the latter was not. Clinical trials of Brazilian, Ecuadorian and possibly Colombian antivenoms In recent years, the most widely used antivenom, 'Myn', produced by Ronti and imported from Mexico, has failed 1983): (1) 'Myn', Ronti Mexico SA (B. atrox, Crotalus durissus terrificus, Mexico); (2) Instituto Butantan (Bothrops polyvalent, Brazil); (3) Instituto Nacional de Higiene y Medicina Tropical (Bothrops polyvalent, venoms of Buthrops species were compared using standard WHO rodent and in vitro assays (Theakston and Reid, Ecuador); (4) Instituto Nacional de Salud (B. asper, C. durissus and L. muta, Colombia). The venoms against Bothrops asper, B. atrox, Bothriopsis bilineata and Lachesis muta cause the most severe envenoming in Ecuador. are planned in the Amazon region of Ecuador in the near future.

Theakston, R. D. G. and Reid, H. A. (1983) Bull. WHO 61, 949-956.

Comparison of F(ab'), and Fab efficiency on plasma extravasation induced by Viper aspis venom. M. Sorkine, 1.2 B. Saliou' and C. Bon' ('Unité des Venins, Institut Pasteur 25, Rue du Dr Roux, 75724 Paris Cedex 15, France; and 2S.A.R.. Hôpital Henri Mondor, Créteil 94000, France).

first step of codema formation, was examined. The purpose of the study was to compare in a mouse model the effect of F(ab'), (equine) and Fab (equine and ovine) on capillary permeability increase (CPI) induced by Vipera of ovine and equine Fab. These data showed firstly that the in vitro neutralization of the venom by immunoglobulin fragments does not reflect their in vivo efficiency. Secondly, Fab was considerably more effective than F(ab')₂ in reducing CPI induced by venom. One explanation is the different kinetics of these fragments. The Since symptomatic treatment failed to prevent this oedema, the effect of antivenom on plasma extravasation, the aspis aspis venom. F(ab'), (1D₃₀ 2 mg/kg) and Fab (1D₃₀ 2.5 mg/kg) reduced considerably CPI when mixed with tration of the venom, a larger amount of fragments was necessary, Fab being five times more effective than F(ab')₂ (10₃₀ 105 mg,/kg compared to 10₃₀ 520 mg/kg). Furthermore, immunoglobulins injected after the venom F(ab')₂ Envenomation caused by European vipers associates local signs, essentially oedema and systemic manifestations. venom prior to intradermal injection. When fragments were intravenously injected before intradermal adminiswere ineffective, while Fab has a residual effect (ID₂₀ 235 mg/kg). No difference was observed on the efficiency Extensive oedema produces pain and inability to use the affected limb, and is a major factor of hypovolemia. smaller size of Fab results in faster diffusion and a greater volume of distribution.

Molecular structure and action mechanism of the specific crotoxin inhibitor from Crotalus durissus terrificus serum.

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